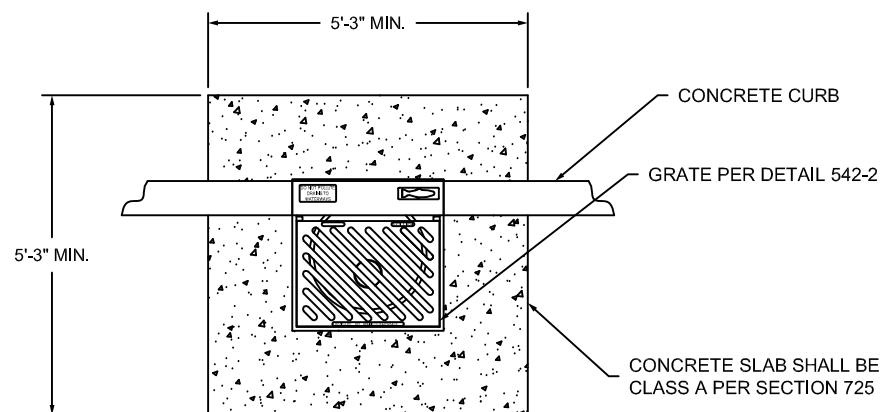
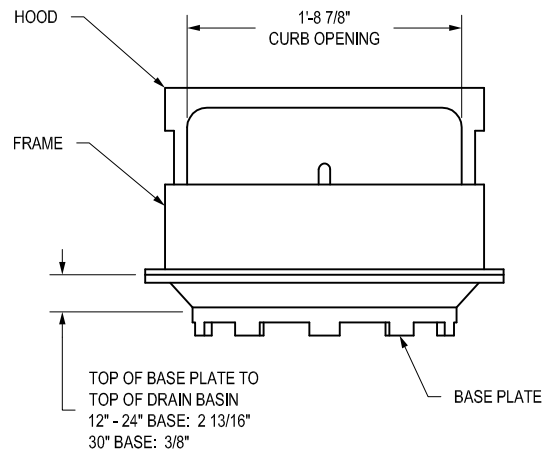
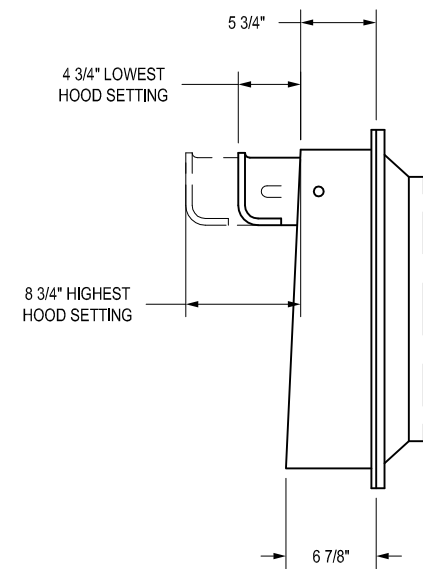
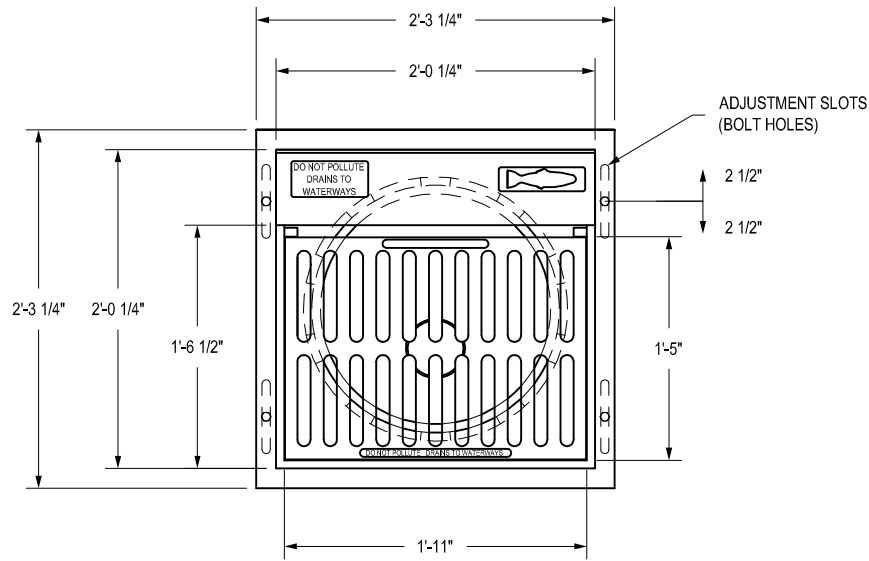


### PLAN VIEW



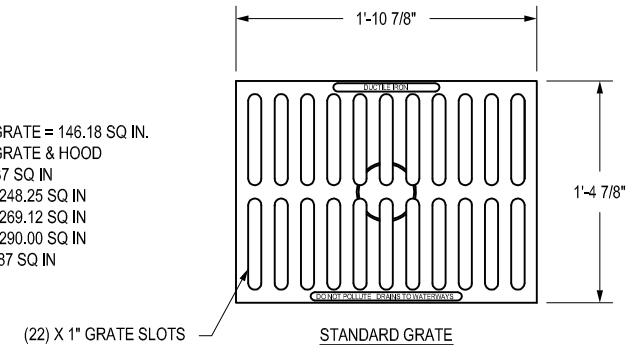
### NOTES:

1. STUB OUT MATERIALS SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE PIPE, PVC SDR-35, PVC SCH 40, PVC C-900, DIP. STUB OUT SHALL BE TWO FEET LONG FOR CONNECTION TO CMP AND RGRCP PIPE WITH A CONCRETE COLLAR PLACED PER MAG DETAIL 505 WITH A MAG 738.2.4 WATER STOP. UNLESS OTHERWISE INDICATED ON THE PLANS.
2. BACKFILL MATERIAL UNDER CONCRETE SLAB SHALL BE CRUSHED ROCK PER SECTION 701.2.1 PLACED UNIFORMLY IN MAXIMUM 8" LIFTS & COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER SECTION 601.4.10 OR 1/2 SACK CLSM PER SECTION 728.
3. FILL SUMP WITH CONCRETE TO INVERT. CONCRETE SHALL BE A MINIMUM OF CLASS C PER SECTION 725.
4. FASTEN FRAME & BASE PLATE WITH (4) 1/2" X 3 1/2" ZINC PLATED BOLTS WITH (4) 1/2" ZINC PLATED NUTS.

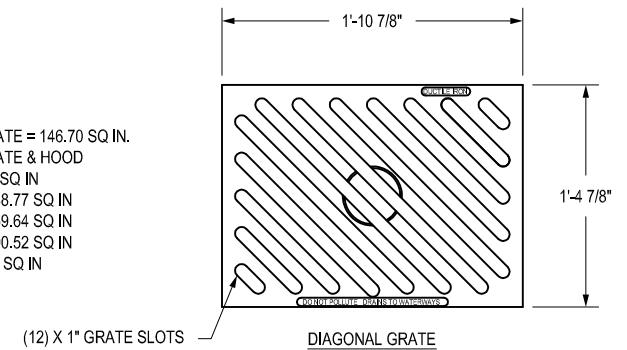


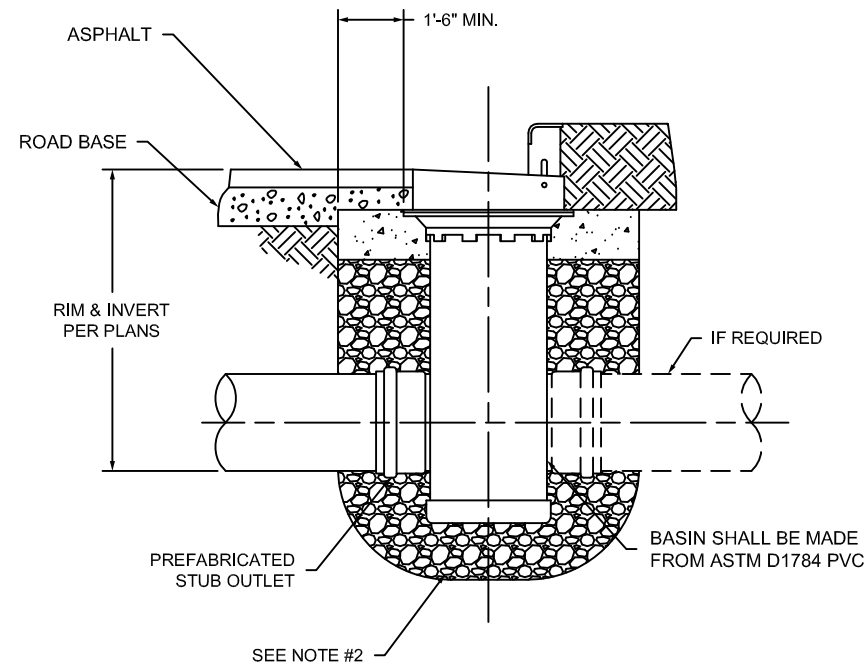
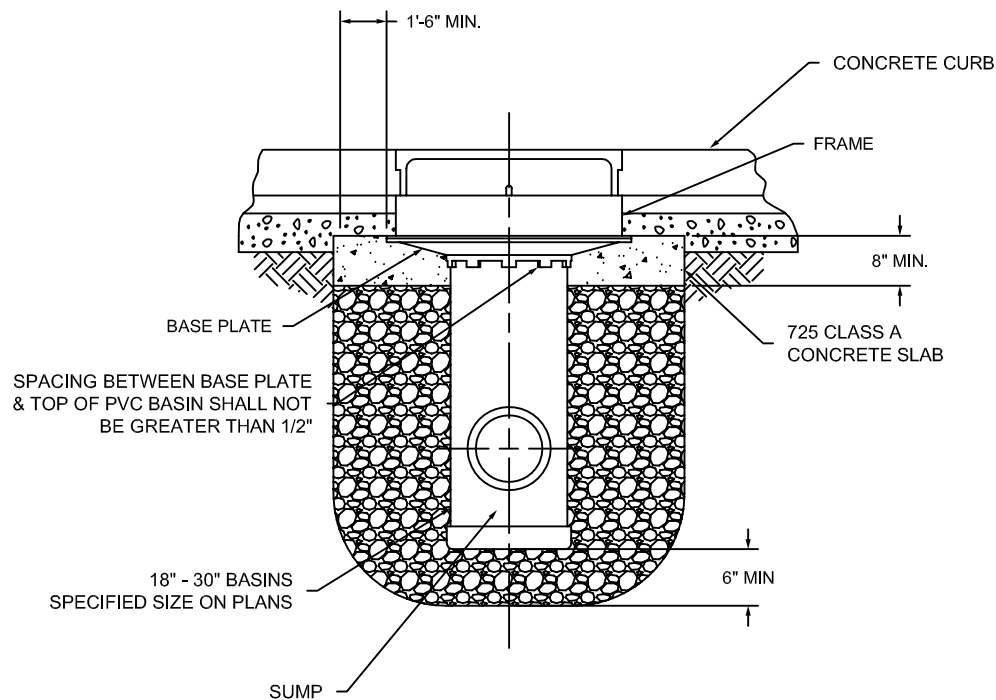
- NOTES:
1. MATERIAL: DUCTILE IRON GRATE SHALL MEET H-20 LOAD.
  2. RATING & CONFORMING TO ASTM A536 GRADE 70-50-05.
  3. ALL CASTINGS ARE FURNISHED WITH BLACK PAINT.
  4. SLOPE OF GRATE SURFACE IS 5.2%.
  5. CURB INLET FRAME INSIDE VOLUME IS APPROX. 1.76 CU FT.

APPROX. DRAIN AREA OF STANDARD GRATE = 146.18 SQ IN.  
 APPROX. DRAIN AREA OF STANDARD GRATE & HOOD  
 LOWEST HOOD SETTING = 227.37 SQ IN  
 LOWEST HOOD + 1" SETTING = 248.25 SQ IN  
 LOWEST HOOD + 2" SETTING = 269.12 SQ IN  
 LOWEST HOOD + 3" SETTING = 290.00 SQ IN  
 HIGHEST HOOD SETTING = 310.87 SQ IN

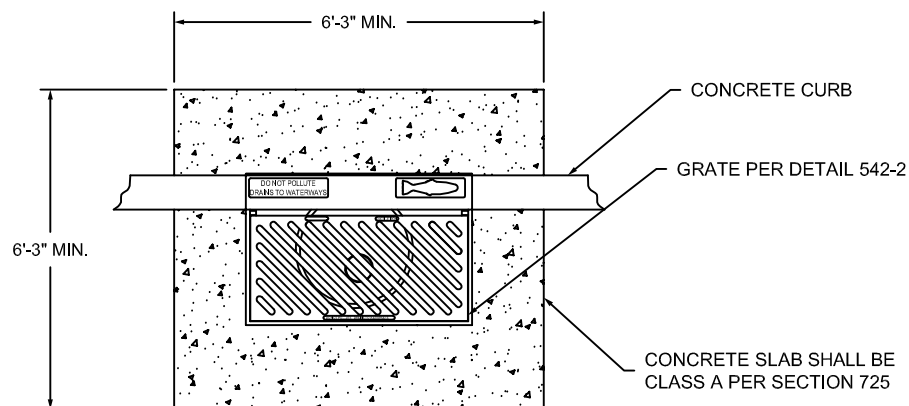


APPROX. DRAIN AREA OF DIAGONAL GRATE = 146.70 SQ IN.  
 APPROX. DRAIN AREA OF DIAGONAL GRATE & HOOD  
 LOWEST HOOD SETTING = 227.89 SQ IN  
 LOWEST HOOD + 1" SETTING = 248.77 SQ IN  
 LOWEST HOOD + 2" SETTING = 269.64 SQ IN  
 LOWEST HOOD + 3" SETTING = 290.52 SQ IN  
 HIGHEST HOOD SETTING = 311.39 SQ IN





### PLAN VIEW



#### NOTES:

1. STUB OUT MATERIALS SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE PIPE, PVC SDR-35, PVC SCH 40, PVC C-900, DIP. STUB OUT SHALL BE TWO FEET LONG FOR CONNECTION TO CMP AND RGRCP PIPE WITH A CONCRETE COLLAR PLACED PER MAG DETAIL 505 WITH A MAG 738.2.4 WATER STOP. UNLESS OTHERWISE INDICATED ON THE PLANS.
2. BACKFILL MATERIAL UNDER CONCRETE SLAB SHALL BE CRUSHED ROCK PER SECTION 701.2.1 PLACED UNIFORMLY IN MAXIMUM 8" LIFTS & COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER SECTION 601.4.10 OR 1/2 SACK CLSM PER SECTION 728.
3. FILL SUMP WITH CONCRETE TO INVERT. CONCRETE SHALL BE A MINIMUM OF CLASS C PER SECTION 725.
4. FASTEN FRAME & BASE PLATE WITH (4) 1/2" X 3 1/2" ZINC PLATED BOLTS WITH (4) 1/2" ZINC PLATED NUTS.

DETAIL NO.

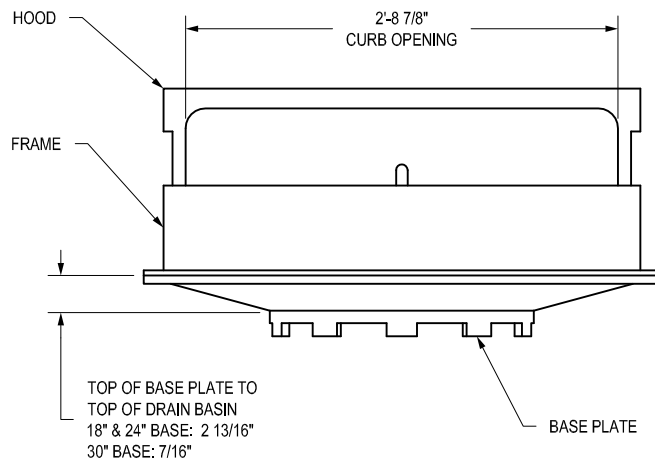
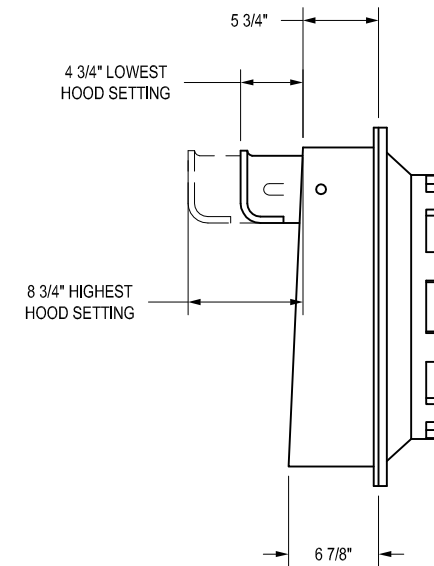
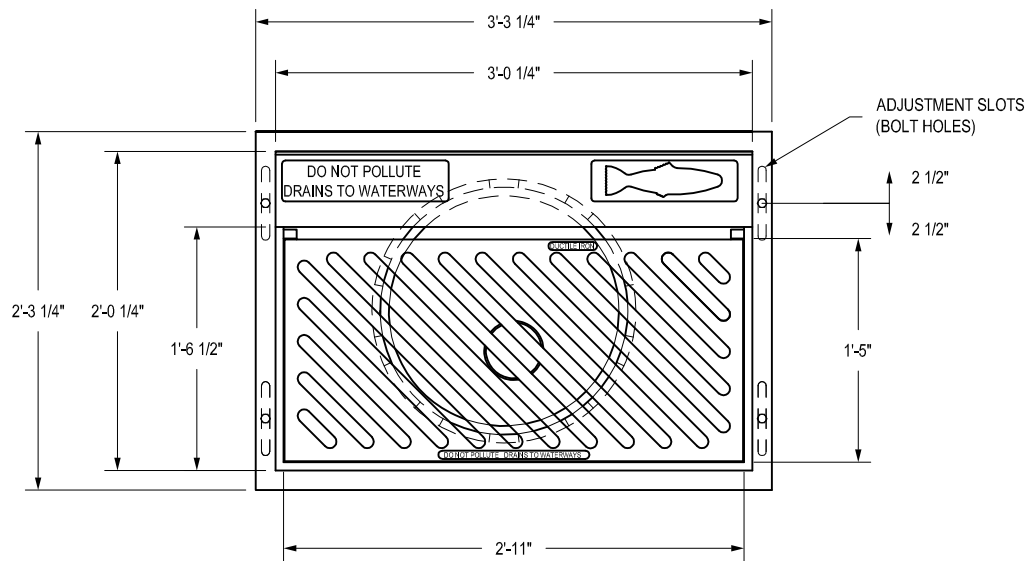
543-1

## 2' X 3' CURB INLET INSTALLATION DETAIL

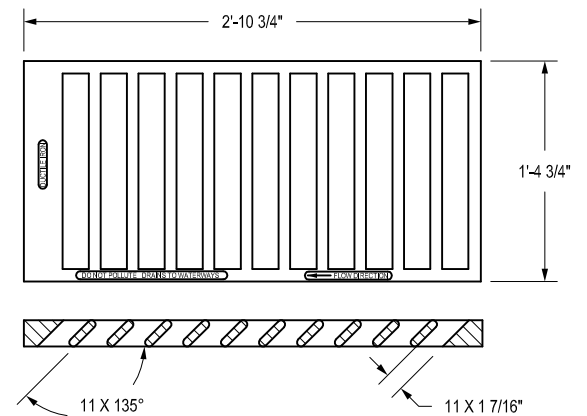
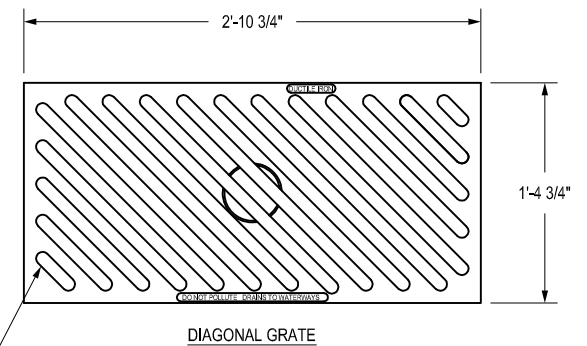
REVISED

DETAIL NO.

543-1



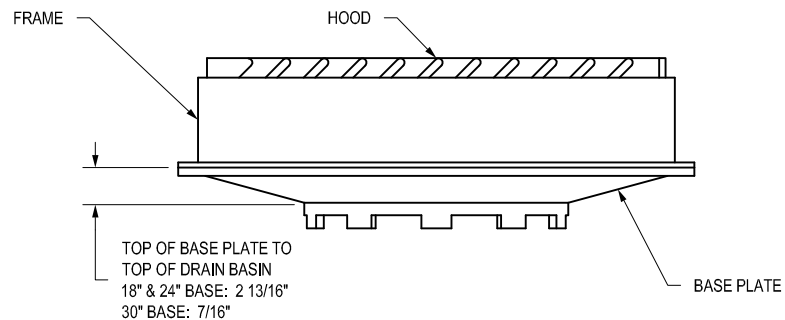
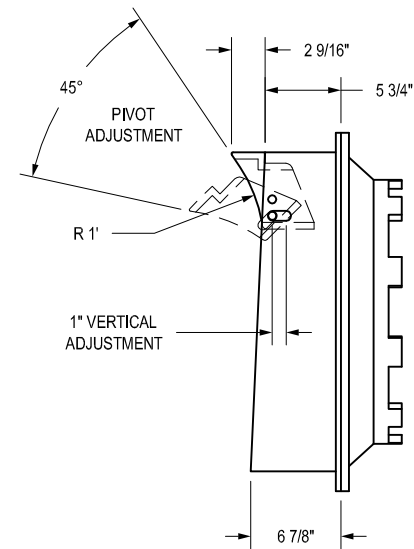
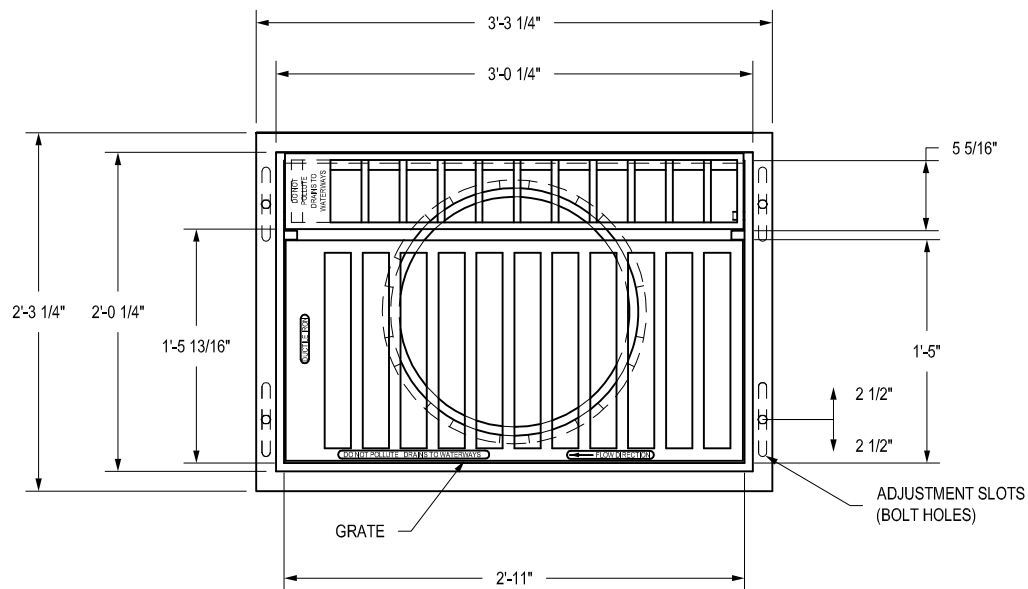
APPROX. DRAIN AREA OF DIAGONAL GRATE = 232.87 SQ IN.  
 APPROX. DRAIN AREA OF DIAGONAL GRATE & HOOD  
 LOWEST HOOD SETTING = 369.54 SQ IN  
 LOWEST HOOD + 1\"/>



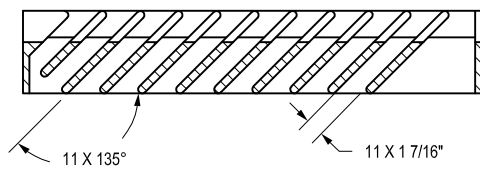
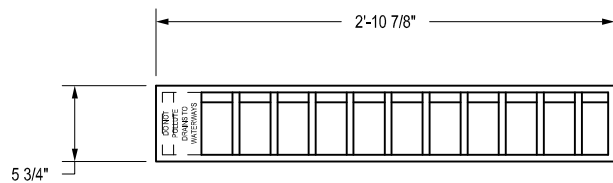
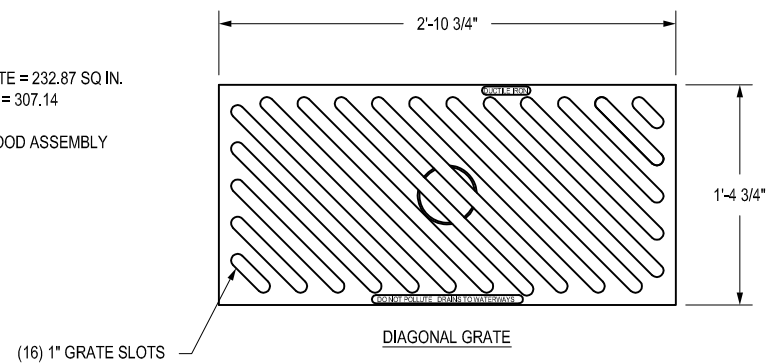
- NOTES:  
 1. MATERIAL: DUCTILE IRON GRATE SHALL MEET H-20 LOAD.  
 2. RATING & CONFORMING TO ASTM A536 GRADE 70-50-05.  
 3. ALL CASTINGS ARE FURNISHED WITH BLACK PAINT.  
 4. SLOPE OF GRATE SURFACE IS 5.2%.  
 5. CURB INLET FRAME INSIDE VOLUME IS APPROX. 2.73 CU FT.

APPROX. DRAIN AREA OF DIAGONAL GRATE = 327.25 SQ IN.  
 APPROX. DRAIN AREA OF DIAGONAL GRATE & HOOD  
 LOWEST HOOD SETTING = 463.92 SQ IN  
 LOWEST HOOD + 1\"/>

2' X 3' CURB INLET DETAIL TYPE "A"



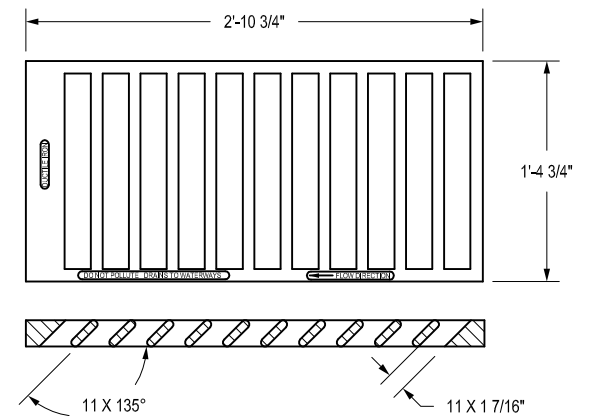
APPROX. DRAIN AREA OF DIAGONAL GRATE = 232.87 SQ IN.  
 APPROX. DRAIN AREA OF GRATE & HOOD = 307.14  
 APPROX. WEIGHT OF GRATE = 112.5 LBS.  
 APPROX. WEIGHT OF GRATE, FRAME & HOOD ASSEMBLY  
 W/ 18" BASE = 458.0 LBS.  
 W/ 24" BASE = 446.5 LBS..  
 W/ 30" BASE = 417 LBS.



ROLL CURB INSERT LEFT OR RIGHT DIRECTION

APPROX. DRAIN AREA OF GRATE = 327.25 SQ IN.  
 APPROX. DRAIN AREA OF GRATE & HOOD = 401.52 SQ IN.  
 APPROX. WEIGHT OF GRATE = 123.0 LBS.  
 APPROX. WEIGHT OF GRATE, FRAME & HOOD ASSEMBLY  
 W/ 18" BASE = 468.5 LBS.  
 W/ 24" BASE = 457.0 LBS..  
 W/ 30" BASE = 427.5 LBS.

NOTES:  
 1. MATERIAL: DUCTILE IRON GRATE SHALL MEET H-20 LOAD.  
 2. RATING & CONFORMING TO ASTM A536 GRADE 70-50-05.  
 3. ALL CASTINGS ARE FURNISHED WITH BLACK PAINT.  
 4. SLOPE OF GRATE SURFACE IS 5.2%.  
 5. CURB INLET FRAME INSIDE VOLUME IS APPROX. 2.73 CU FT.



Include the following paragraph as new Section 601.4.10

**601.4.10 Backfill for PVC Catch Basins:** Backfill below and around PVC catch basins shall be placed in maximum 8-inch lifts and thoroughly compacted to at least 95% of maximum density when tested and determined by AASHTO T-99, Method A, with the percent of density adjusted in accordance with the rock correction procedure for maximum density determination, MAG Detail 190, to compensate for the rock content larger than that which will pass a No. 4 sieve.